

Definite Purpose Three Phase, TEFC & TENV Hostile Duty, Inverter Duty 20:1 (3-60 Hertz) Speed Range Constant Torque

APPLICATIONS:

For use with machine tools, material handling, packaging machines, test equipment, cranes and hoists, and applications having constant torque requirements.

FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA® MG-1 Part 31)
- Double Dip & Bake With Extra Bracing
- Class F Insulation, 1.0 Service Factor On PWM
- Cast Iron Frame (140: Rolled Steel), Cast Iron End Brackets
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- 40°C Ambient, NEMA® Design A Performance
- Regreasable Bearings, Lifting Provisions 180 Frame & Up
- Double Shielded Bearings 140-360
- Cast Iron Inner Bearing Caps (280 Frame & Up)
- Premium Efficient Design, Special Balance, F1 Assembly Position
- Class F Thermostats (One Per Phase)
- Encoder provision standard on stock models
- Insulated shaft ODE 400 Frame & Up
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Drip Cover Kits (except 320-360)
- Shaft Grounding Standard 3HP & Up



CTI

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800(4000)	230/460	145TC	H1T2BC	\$724	DS-VST	12.6	65	84.0	3.5/1.8	
1 1/2	1800(4000)	230/460	145TC	H32T2BC	\$791	DS-VST	12.6	70	85.5	4.6/2.3	
2	1800(4000)	230/460	182TC	H2T2BC	\$857	DS-VST	15.2	100	89.5	5.8/2.9	
3	1800(4000)	230/460	182TC	HN3T2BC	\$1,213	DS-VST	16.5	100	89.5	9.1/4.5	28
	1200(4000)	230/460	213TC	HN3T3BC	\$2,151	DS-VST	20.0	160	89.5	8.8/4.4	28
5	1800(4000)	230/460	184TC	H5T2BC	\$1,086	DS-VST	16.3	110	89.5	13.4/6.7	
	1800(4000)	230/460	184T	H5T2B	\$985	DS-VST	15.6	110	89.5	13.4/6.7	
	1800(4000)	230/460	213TC	HN5T2BC	\$1,604	DS-VST	20.0	160	89.5	16/8	28
	1200(4000)	230/460	215TC	HN5T3BC	\$2,821	DS-VST	20.0	175	89.5	15/8	28
7.5	1800(4000)	230/460	213TC	H7T2BC	\$1,497	DS-VST	19.9	160	91.7	22/11	
	1800(4000)	230/460	213T	H7T2B	\$1,348	DS-VST	19.2	160	91.7	22/11	
	1800(4000)	230/460	213TC	HN7T2BC	\$1,907	DS-VST	20.0	160	91.7	22/11	28
	1200(4000)	230/460	254TC	H7T3BC	\$2,675	DS-VST	26.1	300	91.0	22/11	
	1200(4000)	230/460	254TC	HN7T3BC	\$3,428	DS-VST	25.1	300	91.0	20/10	28
10	1800(4000)	230/460	215TC	H10T2BC	\$2,172	DS-VST	19.9	175	91.7	29/15	
	1800(4000)	230/460	215T	H10T2B	\$1,628	DS-VST	19.2	175	91.7	29/15	
	1800(4000)	230/460	254TC	HN10T2BC	\$2,628	DS-VST	25.1	300	91.7	28/14	28
	1200(4000)	230/460	256TC	H10T3BC	\$3,189	DS-VST	26.1	340	91.0	27/14	
	1200(4000)	230/460	256TC	HN10T3BC	\$4,023	DS-VST	25.1	340	91.0	27/14	28
15	1800(4000)	230/460	254TC	H15T2BC	\$2,449	DS-VST	25.9	340	92.4	40/20	
	1800(4000)	230/460	254T	H15T2B	\$2,248	DS-VST	25.4	300	92.4	40/20	
	1800(4000)	230/460	254TC	HN15T2BC	\$3,193	DS-VST	25.1	340	92.4	39/20	28
	1200(4000)	230/460	284T	H15T3B	\$4,164	DS-VST	27.0	380	91.7	40/20	
20	1800(4000)	230/460	256TC	H20T2BC	\$3,253	DS-VST	25.9	340	93.0	54/27	
	1800(4000)	230/460	256T	H20T2B	\$2,770	DS-VST	25.4	375	93.0	54/27	
	1200(4000)	230/460	286T	H20T3B	\$5,044	DS-VST	27.0	410	91.7	56/28	
25	1800(4000)	230/460	284T	H25T2B	\$3,324	DS-VST	27.1	380	93.6	65/33	
	1200(3000)	230/460	324T	H25T3B	\$6,001	DS-VST	30.7	600	93.0	76/38	
30	1800(4000)	230/460	286T	H30T2B	\$3,876	DS-VST	27.1	440	93.6	78/39	
	1200(3000)	230/460	326T	H30T3B	\$7,081	DS-VST	30.7	625	93.0	84/42	
40	1800(3000)	230/460	324T	H40T2B	\$5,061	DS-VST	30.8	600	94.1	107/54	
	1200(3000)	230/460	364T	H40T3B	\$9,538	DS-VST	32.3	740	94.1	101/50	
50	1800(3000)	230/460	326T	H50T2B	\$6,214	DS-VST	30.8	710	94.5	122/61	
	1200(3000)	230/460	365T	H50T3B	\$10,988	DS-VST	32.3	910	94.1	124/62	
60	1800(3000)	230/460	364T	H60T2B	\$9,035	DS-VST	32.3	825	95.0	145/72	
	1200(3000)	230/460	404T	H60T3B	\$12,945	DS-VST	37.6	1160	94.5	155/78	

Note 28 TENV Enclosure

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(continued)

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
75	1800(3000)	230/460	365T	H75T2B	\$11,491	DS-VST	32.3	830	95.4	191/96	
	1200(3000)	230/460	405T	H75T3B	\$15,263	DS-VST	37.6	1180	94.5	197/99	
100	1800(3000)	230/460	405T	H100T2B	\$14,161	DS-VST	37.7	1250	95.4	237/119	B
	1200(3000)	230/460	444T	H100T3B	\$20,898	DS-VST	45.4	1660	95.0	258/129	
125	1800(3000)	460	444T	H125T2C	\$17,628	DS-VST	45.4	1675	95.4	172	
150	1800(3000)	460	445T	H150T2C	\$20,923	DS-VST	45.4	1800	95.8	189	
200	1800(3000)	460	447T	H200T2C	\$23,452	DS-VST	48.9	2140	96.2	253	
250	1800(2000)	460	449T	C250T2C	\$30,248	DS-VST	55.1	2410	96.2	303	ETO
300	1800(2000)	460	449T	C300T2C	\$41,403	DS-VST	55.1	2410	96.2	343	ETO
350	1800(2000)	460	449T	C350T2C	\$49,229	DS-VST	55.1	2410	96.2	417	ETO

Note ETO Model available as ETO only
Note B NEMA Design B

CONVERSION OPTIONS:

Pre-assembled encoders – NO EXTRA ASSEMBLY CHARGE.

Encoders

- All encoders listed have Line-Driver Outputs
- Encoder cables not supplied by Nidec Motor Corporation®

ENCL.	FRAME	MAKE	MODEL	LIST	PPR	BRGS	SENSOR	DUTY	CONNECTOR
TENV	182-256	AVTRON	AV56	\$1,850	1024	NO	MAGNETIC	HEAVY, BRAKE	10-PIN EPIC INDUSTRIAL
		DYNAPAR	ST56	\$2,800	1024	NO	MAGNETIC	HEAVY, BRAKE	INDUSTRIAL W/ 1/2" NPT
TENV & TEFC	182-256	AVTRON	AV32	\$1,050	32-5000	NO	MAGNETIC	MILL	MS 10-PIN
		AVTRON	HS25A	\$900	1024	YES	OPTICAL	LIGHT	MS 10-PIN
		DYNAPAR	HS20	\$900	1024	YES	OPTICAL	LIGHT	MS 10-PIN
		EPC	260	\$900	1024	YES	OPTICAL	LIGHT	MS 10-PIN
TEFC	182-447	AVTRON	HS35A	\$1,200	1024	YES	OPTICAL	LIGHT	MS 10-PIN
		DYNAPAR	HS35R	\$1,850	1024	YES	OPTICAL	LIGHT	MS 10-PIN
		EPC	25T	\$1,500	1024	YES	OPTICAL	MILL	MS 10-PIN

* Required for brake mounting with encoder

Brakes

- Connections to brakes: flying leads in brake enclosure
- Brakes rated for holding only – not to be applied for stopping
- Brakes only available on TENV enclosures

ENCL.	FRAME	MAKE	SERIES	LIST	COIL VOLTS	NOM STATIC TORQUE	ENCLOSURE
TENV	182-256	Stearns®	56,000	\$766	115/208-230	6 lb-ft	IP23, STEEL HOUSING
		Stearns®	56,000	\$911	115/208-230	10 lb-ft	IP23, STEEL HOUSING
		Stearns®	56,000	\$766	208-230/460	6 lb-ft	IP23, STEEL HOUSING
		Stearns®	56,000	\$911	208-230/460	10 lb-ft	IP23, STEEL HOUSING
		Stearns®	56,000	\$766	575	6 lb-ft	IP23, STEEL HOUSING
		Stearns®	56,000	\$911	575	10 lb-ft	IP23, STEEL HOUSING

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